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(54) Title: WIRELESS LOCAL LOOP SYSTEM AND METHODS USEFUL THEREFOR

(57) Abstract

This invention discloses a wireless local loop system including a data network/PSSTN gateway unit (30), at least one data lines, at least one base stations (10) connected to the gateway unit via said at least one data lines respectively, a multiplicity of wireless subscriber units (60) communicating wirelessly with the base station, each wireless subscriber unit comprising at least one interfaces (130) to at least one host including a telephone host, each subscriber unit including an analog converter operative to translate incoming information in IP packet format into analog voice representation and to feed the analog voice representation to the telephone host, and to receive incoming analog voice information from the telephone host, to translate the incoming analog voice information into IP packet formatted information and to feed the IP packet formatted information to the base station, and a packet switcher operative to perform packet switching on IP packets arriving from the base station connected to the subscriber unit, including routing IP packets for hosts other than the telephone host to those hosts and routing IP packets for the telephone host to the analog converter, and wherein the base station is operative to perform packet switching on incoming IP packets based on an IP destination address included in each the incoming IP packet, and wherein the gateway unit is operative to switch incoming data packets onto the data network (40), to translate incoming voice packets from IP packet format into analog voice representation and to switch the analog voice representation onto the PSTN (50).

